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COMPLETE 150,000-KILOWATT STEAM TURBINE,
 BUILD BOILER FOR IT

SERIES OF TURBINES REQUIRE LESS FUEL -- Riga, Sovetskaya Latvya, 22 Mar 52

In 1952, plants of the Ministry of Heavy Machine Building turned out some new, unique hydroturbines and steam turbines.

The Leningrad Metal Plant imeni Stalin produced a series of highly unified steam turbines of simple design. One of these turbines develops 50,000 kilowatts, and the others are rated at 25,000 kilowatts. The new turbines require 12-14 percent less fuel than models of prewar design.

Leningradskaya Pravda, 29 Mar 52

The new SVK-150 steam turbine, recently completed at the Leningrad Metal Plant imeni Stalin, is the largest steam turbine in the world. Twenty-two meters long and weighing about 500 tons, it has parts made of new types of austenite and heat-resistant steel.

Steam enters the turbine at a temperature of 550 degrees under 170 atmospheres of pressure.

Among the designers who developed the giant machine are P. Gladkov, O. Grodskiy, A. Lomakin, V. Yegorov, and K. Pachentsev. -- V. Vasil'yev, director, Leningrad Metal Plant imeni Stalin.

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Leningradskaya Pravda, 26 Mar 52

The Leningrad Metal Plant imeni Stalin has completed the assembly of its giant new SVK-150 steam turbine, which develops 150,000 kilowatts, at 3,000 revolutions per minute. Compared to former turbines, it will require 10 per cent less fuel.

The plant worked closely with representatives of Moscow and Leningrad scientific institutions in the creation of the powerful machine. The well known designers, M. I. Grinberg, K. A. Spiridonov, and P. S. Gladkov were ably assisted by younger engineers in drawing up plans of the turbine.

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DOUBLE OUTPUT -- Minsk, Sovetskaya Belorussiya, 23 Mar 52

Without increasing its production facilities, the Kaunas Pergalye Plant has so far this year doubled its output of turbines compared with the corresponding period of 1951.

NEW BOILER WILL HAVE 283.5 KILOMETERS OF TUBING -- Moscow, Komsomol'skaya Pravda, 21 Mar 52

The boiler which the Taganrog Krasnyy Kotel'shchik Plant is building for the new 150,000-kilowatt turbine of the Leningrad Metal Plant imeni Stalin will be as high as a 12-story building. It will burn 2,000 tons of coal per day, will generate 240 tons of steam per hour, and will have 283.5 kilometers of tubing.

NEW GOVERNOR SIMPLER, CHEAPER -- Tashkent, Pravda Vostoka, 25 Mar 52

The invention and application of a new steam-turbine governor won the Stalin Prize for Professor A. V. Shcheglyayev and Docent S. G. Smel'nitskiy, both of the Moscow Power Institute imeni Molotov, and D. A. Yermakov, chief engineer of the Kashira State Rayon Electric Power Station.

Most former governors used on generator-coupled turbines maintained slow speeds of 500-600 revolutions per minute.

The new governor was built and tested in 1949. Attached directly to the turbine shaft, it has no gear transmission. Set up on a steam turbine at the Kashira State Regional Electric Power Station, the governor worked more than 2 years without repair.

The governor works on the principle of elastic deformation. While it is extremely sensitive, it is also durable, since it does not have so many moving parts. It is smaller than former governors, simpler in operation, and costs one third the price.

Some of these new governors are now in operation at other electric power stations.

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IRON BOILER TO SERVE HEATING PLANT -- Moscow, Vechernyaya Moskva, 25 Mar 52

The Iron-Casting Plant imeni Voykov will soon launch production of a new boiler designed for heating living quarters. Built up of separate cast iron section, the boiler is designed to take gas heat.

SAVE METAL IN LOCOMOBILE PRODUCTION -- Moscow, Pravda, 25 Mar 52

For each locomobile it builds, the Mogilev Locomobile Plant cuts the expenditure of cast iron 47.3 kilograms and aluminum, 3 kilograms.

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